CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-10-23-02 **Date: 27-10-17**

Customer : Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.

Address : Yelahanka New town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03

Agency : Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.

Customer's Reference : EE/YNK/W.O/72/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-10-17

Sample ID No : 2017-10-23-02-01

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 23/10/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.48	1.316	4480	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.45	100.52	1.342	4470	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.54	100.51	1.368	4481	81.5	18.2	16.9	21.1

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2017-10-23-02 **Date: 27-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer's Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-17
Sample ID No	:	2017-10-23-02-02
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	23/10/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.41	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.45	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE Ws

AE-W

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-10-11-01** **Date: 12-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer's Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-17
Sample ID No	:	2017-10-11-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	11-10-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-01

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2017-10-09-03 **Date: 12-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-17
Sample ID No	:	2017-10-09-03-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-10-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AEW3

AE-02

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-10-09-03** **Date: 11-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP,
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-17
Sample ID No	:	2017-10-09-03-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-10-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AEW3

AE-W

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2017-10-09-03 **Date: 11-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-10-17
Sample ID No	:	2017-10-09-03-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-10-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.9%	
Combined Flakiness and Elongation Index for WMM	26.7%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-10-16-04** **Date: 18-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-17
Sample ID No	:	2017-10-16-04-01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	16-10-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	176	176	3.52	96.48	90-100
19	1009	1185	23.70	76.30	71-95
13.2	525	1710	34.20	65.80	56-80
4.75	1145	2855	57.10	42.90	38-54
2.36	710	3565	71.30	28.70	28-42
0.3	1094	4659	93.18	6.82	7-21
0.075	272	4931	98.62	1.38	2-8
PAN	69	5000	0.00	0	0

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2017-10-16-04** **Date: 19-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP,
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-17
Sample ID No	:	2017-10-16-04-01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	16-10-17

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.8	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.9		
Strength	Aggregate Impact Value	22.8	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.24	Maximum 2%	IS:2386 Part III

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-10-16-04**	**Date: 19-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.	
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03	
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.	
Customer Reference	:	EE/YNK/W.O/72/16-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	16-10-17	
Sample ID No	:	2017-10-16-04-01	
Type of Mix	:	DBM(Dense Bitumnous Macadam)	
Date of test	:	16-10-17	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-01

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-10-16-04** **Date: 19-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-17
Sample ID No	:	2017-10-16-04-01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	16-10-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.69	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.68	3.87	2-4
3	Percent air Voids	4.56	4.47	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	69.18	70.28	65-75
6	Density, g/cc	2.42	2.38	–

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-11-03-02 **Date: 04-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	03-11-17
Sample ID No	:	2017-11-03-02-01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	03-11-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.4	4.6
4	Average percentage	%	4.5	

AEW3

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-03

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID

Sample ID No : CP-RW-2017-11-03-02 **Date: 04-11-17**

: 2017-11-03-02-01

Weight of Sample(gm) : 478

AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	2	2	0.42	99.6	90-100
19	47	49	10.25	89.7	71-95
13.2	46.5	95.5	19.98	80.0	56-80
4.75	132	227.5	47.59	52.4	38-54
2.36	74.5	302	63.18	36.8	28-42
0.3	89	391	81.80	18.2	7-21
0.075	45	436	91.21	8.8	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	48	51	10.69	89.3	71-95
13.2	68	119	24.95	75.1	56-80
4.75	144	263	55.14	44.9	38-54
2.36	86	349	73.17	26.8	28-42
0.3	32	381	79.87	20.1	7-21
0.075	60	441	92.45	7.5	2-8

AE W3

Note:-
The results pertain to the samples received and tested.
All information furnished by the Customer/ Representative.
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-10-19-02** **Date: 21-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-10-17
Sample ID No	:	2017-10-19-02-01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	19-10-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

AE W3

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE-W3

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-10-19-02** **Date: 22-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-10-17
Sample ID No	:	2017-10-19-02-01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	19-10-17

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.7	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	12.1		
Strength	Aggregate Impact Value	22.6	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.66	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.23	Maximum 2%	IS:2386 Part III

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-2

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2017-10-19-02 **Date: 22-10-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-10-17
Sample ID No	:	2017-10-19-02-01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	19-10-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2017-10-19-02 **Date: 22-10-17**

Customer : Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.

Address : Yelahanka New town Sub Division, BBMP, Bangalore.

Project Name : Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03

Agency : Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.

Customer Reference : EE/YNK/W.O/72/16-17

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 19-10-17

Sample ID No : 2017-10-19-02-01

Type of Mix : BC (Bituminous Concrete)

Date of test : 19-10-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.24	11.23	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.80	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.30	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.85	71.75	65-75
6	Density, g/cc	2.15	2.20	–

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-03

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES|

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-11-05-01** **Date: 07-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka New town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Asphalting to Main and Cross Roads of SFS 407 near Ganesha Temple in Attur ward No.03
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	EE/YNK/W.O/72/16-17
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	05-11-17
Sample ID No	:	2017-11-05-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	05-11-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.79
4	Average percentage	%	5.6	

AE W3

CIVIL PRO Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-03

Lab ID : CP-RW-2017-11-05-01

Sample ID : 2017-11-05-01/01

Date: 07-11-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	65	67	14.2	85.8	70-88
4.75	119	186	39.4	60.6	53-71
2.36	75	261	55.3	44.7	42-58
1.18	31	292	61.9	38.1	34-48
0.6	9	301	63.8	36.2	26-38
0.3	46	347	73.5	26.5	18-28
0.15	42	389	82.4	17.6	12-20
0.075	52	441	93.4	6.6	4-10

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

AE-W

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com